ROHAN DEDHIA

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EDUCATION

SVKM's NMIMS Mukesh Patel School of Technology Management & Engineering (Autonomous), Mumbai, India
Bachelor of Technology - BTech, Data Science **(CGPA: 3.8 / 4)** Expected Graduation: May 2028
Relevant Coursework: Statistics, Probability, Machine Learning, DBMS, DSA

Work Experience

AI Solutions Developer November 2025 - Present
Tekkloom Mumbai, India

- Co-founded an AI automation startup, scaling from 0 to 5 clients by delivering 3+ custom websites and data organization solutions for small businesses.
- Engineered an automated lead analytics pipeline integrating CRM exports, spreadsheets, and marketing data sources to generate actionable business insights.
- Scoped AI automation and analytics solutions for 5+ client engagements.

Full Stack Engineer Intern May 2025 – October 2025
BeProEx LLC Newport Beach, CA, US (Remote)

- Engineered 30+ reusable frontend components using Next.js, improving development speed by ~30%
- Integrated Sanity.io CMS to manage dynamic content, reducing manual updates by 50%
- Collaborated with designers and product stakeholders to ship production-ready features in Next.js.
- Supported backend operations using PostgreSQL and SQL for data querying and updates.

AI & Data Science Intern June 2025 - July 2025
Resqink Association for Wildlife Welfare (RAWW) Mumbai, India

- Built and optimized a multilingual chatbot to streamline wildlife rescue coordination across Mumbai.
- Improved chatbot response efficiency through workflow automation and UX optimization.
- Analyzed 300+ rescue records to identify patterns and build a structured database for faster decision-making.
- Built an interactive GIS rescue map visualizing 150+ cases across MMR with species filters and hotspot clustering.

ACADEMIC PROJECTS

Sell-Side Analyst Price Target Auditor | [GitHub] [Dashboard]

- Analyzed 734K analyst price targets from Refinitiv I/B/E/S (2001–2024) to evaluate forecasting performance across 23 sell-side research firms.
- Built a Python pipeline processing 2.2M forecast records and 4M price observations, filtering to 734K evaluable price-target outcomes across 23 firms.
- Identified a +33pp industry-wide optimism bias and documented forecast accuracy deterioration during major market dislocations, including the 2007 Global Financial Crisis.
- Developed and deployed an interactive Streamlit dashboard featuring firm rankings, analyst leaderboards, market-regime analysis, and 24-year forecasting trends.

LLM Cost & Quality Monitor | [GitHub] [Dashboard]

- Built an LLM observability platform tracking 12+ operational metrics including API cost, latency, token usage, and response quality across GPT and Claude workloads.
- Developed an Isolation Forest–based anomaly detection pipeline using cost, latency, and token-volume signals to identify abnormal API behavior.
- Implemented 14-day AI spend forecasting using Holt-Winters exponential smoothing and visualized insights through an interactive Streamlit dashboard.
- Built a reusable monitoring wrapper tracking API cost, latency, token usage, and quality metrics.

Detecting Alzheimer's Disease Using Machine Learning and Ensemble Methods on Clinical Data | [Paper]

- Proposed a hybrid ML framework combining CNN, LSTM, and Random Forests for early Alzheimer's detection.
- Utilized the OASIS clinical dataset, focusing on non-imaging features (MMSE, brain volumes, demographics).
- Improved model performance by ~5% over baseline using ensemble learning techniques.
- Built an ensemble voting system to improve diagnostic stability and model generalizability.

TECHNICAL SKILLS

Languages: Python, SQL, C++, JavaScript
ML & Data Analysis: Pandas, NumPy, Scikit-learn, SciPy · Time-Series Forecasting, Anomaly Detection, Ensemble Learning
Visualization & Dashboards: Streamlit, Plotly, Tableau, Power BI, Matplotlib, Seaborn
Databases: PostgreSQL, MySQL, SQLite
Frameworks: React.js, Next.js
Tools: Git/GitHub, Jupyter, VS Code